



# React Function Props – Passing and Using in Child Components



## Use-Case:

Passing a function (event handler) from a parent component (App.jsx) to a child component (First.jsx), and executing that function on a button click inside the child.



## App.jsx

```
import { useState } from 'react';
import First from './components/First';
import './App.css';

function App() {
  const [count, setCount] = useState(0);

  function clickHandler() {
    setCount(count + 1);
  }

  function clickRemover() {
    if (count > 0) {
      setCount(count - 1);
    }
  }

  return (
```

```

    <>
      <First clickHandler={clickHandler} clickRemover={clickRemover}>
        <h1>{count}</h1>
      </First>
    </>
  );
}

export default App;

```



### First.jsx

```

import React from 'react';

const First = (props) => {
  return (
    <div>
      <p>{props.children}</p>
      <button onClick={props.clickHandler}>Click me!</button>
      <button onClick={props.clickRemover}>Click to Remove</button>
    </div>
  );
};

export default First;

```



## Concept Used: Function as Props

Feature	Description
<code>clickHandler</code>	Function to increment count — passed from <code>App</code> to <code>First</code> .
<code>clickRemover</code>	Function to decrement count — passed from <code>App</code> to <code>First</code> .
<code>props.children</code>	Displays the current value of <code>count</code> .

## Why is this Important?

### ✓ Function Props Enable:

- Parent component **controls the state**.
- Child component **triggers the change**.
- Great for **component reuse** and **separation of concerns**.

## Working Flow:

App.jsx

↳ holds state and functions (count, setCount, clickHandler, clickRemover)

First.jsx

↳ receives props:

- clickHandler
- clickRemover
- children (h1 showing count)

↳ Executes those functions on button click

## Best Practices

Tip	Reason
✓ Keep state in the parent	For better control and debugging
✓ Pass only required functions	Keeps components lightweight
✗ Avoid logic duplication	Don't repeat the same logic in both parent and child

## Extended Idea (Optional for Learning):

You can pass any type of function — like API calls, toggle actions, modals — not just counter logic.

## Summary

Concept	Usage
<code>useState</code>	Manage <code>count</code> state in parent
Function Props	Send <code>clickHandler</code> and <code>clickRemover</code> to child
<code>props.children</code>	Send JSX (count <code>&lt;h1&gt;</code> ) to child for rendering
Buttons in child	Trigger parent logic on click